

# EUROPEAN PATENT OFFICE

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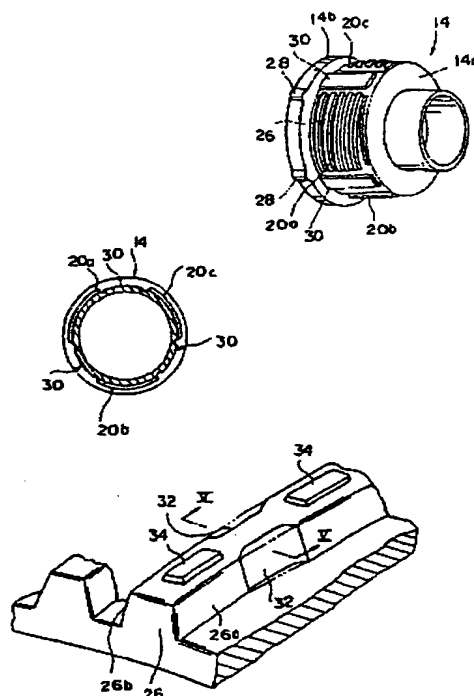
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APPLICANT : COPAL CO LTD;

INVENTOR : KUBOTA HIROSHI;

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TITLE : LENS BARREL



ABSTRACT : PURPOSE: To prevent play in the radial direction and to improve the resolution by providing a projecting part which is slid on a part where a helicoid screw groove is formed.

CONSTITUTION: When an outer helicoid body is rotated and driven, it is slid on an inner helicoid body 14. Since a recessed part 32 functioning as the oil reservoir is formed in a screw thread part 26 of a helicoid screw part 20, it is smoothly slid through a lubricant stored in the recessed part 32. In this case, a projecting part 30 which prevents radial play between the outer helicoid and the inner helicoid 14 is formed on the outside peripheral surface of an intermediate part 14 of the inner helicoid body 14, and plural projecting parts 34 are formed on the projecting face of each screw thread part 26 for the same purpose, and radial play of the inner helicoid body 14 is prevented by the action of these projecting parts 30 and 34 to prevent the deviation of the optical axis.

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